



Government Girls Polytechnic Bilaspur

Department of Computer Science & Engineering

LESSON PLAN
SESSION: Jul-Dec 2024

Subject: Java Programming

Subject Code: 2022572(022)

Semester: V

Name of the Subject Teacher: Mr Nuresh Kumar Dewangan

Unit	Topics/Subtopics to be covered	No. of periods planned
Unit-1 Introduction of Java & Programming Structure	1.1 History of Java, JVM, JDK, JRE, Java Compilation & Interpretation	1
	1.2 Object Oriented paradigm – Encapsulation, Polymorphism, Inheritance	1
	1.3 Programming Structure – Data Type, Variable, Constant, Operator and its precedence	1
	1.4 Control Structure – if-else, switch, while, for, break & continue	1
	1.5 Input from Keyboard – Scanner class, Command line argument	1
	Revision – Unit 1	1
Unit-2 Class, Object & Inheritance	2.1 Class & Object – Definition, Access modifiers, methods, Constructor, this keyword	1
	2.2 Method Overloading, Constructor Overloading, Object as Parameter	1
	2.3 Array – 1D, 2D, Wrapper Class	1
	2.4 Inheritance – types, super keyword, sub class constructor	1
	2.5 Multilevel Inheritance, Method Overriding, Dynamic Method Dispatch	1
	Revision – Unit 2	1
Unit-3 Packages, Interfaces &	Quiz – 1 (Units 1 & 2)	1
	3.1 Abstract Class & its Method	1
	3.2 Interface – Define, implement & apply	1
	3.3 Package – Create, access, import	1

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Exception Handling	3.4 Exceptional Handling – Try & Catch, finally, multiple catch, throw, throws	1
	3.5 User defined exception	1
	Revision – Unit 3	1
	Quiz – 2 (Unit 3)	1
Unit-4 Multi- Threading, String & Swing	4.1 Multi-Threading – Introduction, Thread Life Cycle, Creation of Thread	1
	4.2 Thread Priority, Thread Synchronization, Inter-thread Communication	1
	4.3 String – String, StringBuffer, StringBuilder	1
	4.4 Swing – JFrame, JButton, JTextField, JLabel, JCheckBox, JRadioButton	1
	4.5 Layout Manager – FlowLayout, GridLayout, BorderLayout	1
	Revision – Unit 4	1
Unit-5 Event Handling & JDBC	5.1 Event Handling – ActionListener, MouseListener, KeyListener	1
	5.2 JDBC – Introduction, Driver types, Register driver, getConnection()	1
	5.3 createStatement(), executeQuery(), closing()	1
	Revision – Unit 5	1
	Quiz – 3 (Units 4 & 5)	1
	FULL SYLLABUS REVISION	2
	Total Class	33